## What is claimed is:

current.

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1. A method of maintaining one or more wet-tantalum capacitors in an implantable medical device, with each capacitor having a rated voltage or a maximum-energy voltage, the method comprising:

maintaining at least one of the wet-tantalum capacitors at a high voltage relative its rated voltage or maximum energy voltage for a time; and discharging, after the time, the at least one of the wet-tantalum capacitors through a non-therapeutic load, wherein discharging includes allowing the charge on at least one capacitor to dissipate through leakage

- 2. The method of claim 1, wherein discharging further includes discharging the at least one capacitor through the lead system at rates below a therapeutic level.
- 3. The method of claim 1, wherein discharging further includes discharging the at least one capacitor through the lead system at levels that are non-therapeutic.
- 4. The method of claim 2, wherein discharging further includes discharging the at least one capacitor through a resistor.
  - 5. The method of claim 4, wherein the resistor includes a resistance value of 1000 ohms.
- 25 6. The method of claim 1, wherein discharging further includes allowing the charge on at least one capacitor to dissipate through system leakage.
  - 7. The method of claim 1, wherein the at least one capacitor is allowed to float for a time before discharging the at least one capacitor.

- 8. The method of claim 7, wherein the time is about sixty seconds.
- 9. The method of claim 1, wherein the high voltage is about ninety percent of a rated voltage or a maximum-energy voltage of the at least one capacitor.

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- 10. The method of claim 1, wherein discharging includes discharging until a voltage level is reached.
- 11. The method of claim 10, wherein the voltage level is ten volts less than the maximum-energy voltage.
  - 12. The method of claim 11, wherein the voltage level is the maximum-energy voltage minus ten volts per wet-tantalum capacitor in the system.
- 15 13. The method of claim 1, wherein discharging includes discharging for a predetermined period of time.
  - 14. The method of claim 1, wherein the discharging is internal to the implantable device.

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- 15. The method of claim 1, wherein maintaining at least one of the wet-tantalum capacitors at a high voltage for a time includes maintaining at a high voltage for about 5 minutes.
- 25 16. The method of claim 1, wherein maintaining at least one of the wet-tantalum capacitors at a high voltage for a time includes maintaining at a high voltage for a range of time between about fifteen seconds to ten minutes.
- 17. The method of claim 1, wherein the implantable device includes an implantable cardioverter defibrillator.

- 18. The method of claim 1, wherein the implantable device includes a pacemaker.
- 19. The method of claim 1, wherein the method further includes aborting the discharging through the non-therapeutic load if the implantable device detects a condition requiring device therapy.
- 20. An apparatus comprising:

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a lead system suitable for sensing electrical signals of a heart and for delivering electrical therapy to a heart;

a therapy system coupled to the lead system, wherein the therapy system includes a capacitor system to store electrical energy to be delivered in measured doses through lead system, the capacitor system including at least one wet-tantalum capacitor;

a monitoring system coupled to the lead and therapy systems, wherein the monitoring system maintains the at least one capacitor at a high voltage and periodically discharges the at least one capacitor through leakage current; and an implantable housing containing the therapy, capacitor, and monitor systems.

- 21. The apparatus of claim 20, wherein the apparatus is an implantable cardioverter defibrillator.
  - 22. The apparatus of claim 21, wherein the high voltage is ninety percent of a rated maximum voltage of the at least one wet-tantalum capacitor.
- 25 23. The apparatus of claim 22, wherein the monitor system discharges the at least one capacitor until a predetermined voltage level is reached.
  - 24. The apparatus of claim 22, wherein the monitor system discharges the capacitor for a predetermined period of time.